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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/542,936	07/19/2005	Byoung-Joo Gwag	110200.404USPC	5371
	7590 01/26/200 ECTUAL PROPERTY	EXAMINER		
701 FIFTH AV		HAYES, ROBERT CLINTON		
SUITE 5400 SEATTLE, WA	x 98104		ART UNIT	PAPER NUMBER
,			1649	
			MAIL DATE	DELIVERY MODE
			01/26/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applica	tion No.	Applicant(s)		
Office Action Summary		10/542	936	GWAG ET AL.		
		Examin	er	Art Unit		
		Robert (C. Hayes, Ph.D.	1649		
Period fo	The MAILING DATE of this commun or Reply	ication appears on t	he cover sheet with the	correspondence ad	ddress	
A SH WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE M Insions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum street or reply within the set or extended period for reply eply received by the Office later than three months are departed term adjustment. See 37 CFR 1.704(b).	IAILING DATE OF of 37 CFR 1.136(a). In no nunication. atutory period will apply and will, by statute, cause the a	THIS COMMUNICATIC event, however, may a reply be t will expire SIX (6) MONTHS froi pplication to become ABANDON	N. imely filed in the mailing date of this of ED (35 U.S.C. § 133).	•	
Status						
2a)⊠	Responsive to communication(s) file This action is FINAL . Since this application is in condition closed in accordance with the practi	2b)⊡ This action is for allowance exce	non-final. pt for formal matters, p		e merits is	
Dispositi	on of Claims					
5)□ 6)⊠ 7)⊠ 8)□ Applicati 9)□	Claim(s) 14-17 is/are pending in the 4a) Of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) 14,15 and 17 is/are rejecte Claim(s) 16 is/are objected to. Claim(s) are subject to restrict on Papers The specification is objected to by the The drawing(s) filed on is/are:	re withdrawn from o d. ction and/or election e Examiner.	requirement.	Examiner.		
_	Applicant may not request that any objected to the oath or declaration is objected to	ction to the drawing(s the correction is requ) be held in abeyance. So uired if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 C	, ,	
Priority ເ	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	PTO-948)	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:	Date		

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DETAILED ACTION

Response to Amendment

1. The amendment filed 10/7/08 has been entered.

2. The rejection of claims 14-17 under 35 U.S.C. 101, and 35 U.S.C. 112, first paragraph,

because the claimed invention is not supported by either a credible asserted utility for the

recitation of "preventing neuronal cell death" is withdrawn due to the amendment of the claims.

3. The rejection of claims 14-17 under 35 U.S.C. 112, first paragraph, as failing to comply

with the written description requirement is withdrawn due to the amendment of base claim 14 to

recite specific tetrafluorobenzyl compounds.

4. Applicant's arguments filed 9/5/08 have been fully considered but they are not deemed to

be persuasive.

5. The text of those sections of Title 35, U.S. Code not included in this action can be found

in a prior Office action.

6. Claim 16 is objected to as being dependent upon a rejected base claim, but would be

allowable if rewritten in independent form including all of the limitations of the base claim and

any intervening claims, as it relates to compositions comprising the elected invention, BDNF.

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7. Claims 14-17 are objected to for failure to claim the elected invention of BDNF of Group IIb. The generic recitation of "neurotrophin" and NGF, NT-3 and/or NT-4/5 (e.g., claims 14 & 15) are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected inventions, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 3/10/08.

This application contains claims 14-17 drawn to an invention nonelected with traverse in the reply filed on 3/10/08 A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Claim Rejections - 35 USC § 103

Rejection Necessitated by Amendment of the Claims

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out

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the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claims 14, 15 & 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gwag et al (WO 01/79153 A1; IDS Ref #AD) and Perez-Navarro et al (2000; IDS Ref #DI).

Gwag et al teach pharmaceutical compositions comprising BAS and its derivatives (i.e., TBAS, NBAS, CBAS, MBAS, and FBAS), which are antioxidants that can attenuate NMDA neurotoxicity, and can be used to treat "neurodegenerative diseases that are accompanied by neurotoxicity" (pgs. 10, 13-14 & 27-28; as it relates to claims 14 & 17). Page 3 of Gwag further teach that Huntington's disease (HD) is a progressive neurodegenerative disease state where NMDA receptor-mediated neurotoxicity contributes to selective neuronal death in HD", and therefore, is a candidate disease state treatable with their pharmaceutical compositions. However, Gwag et al do not teach compositions comprising the neurotrophin BDNF for treating Huntington's disease, or any other neurodegenerative disease.

Perez-Navarro et al teach that the neurotrophins BDNF, NT3 and NT4/5 can be used to differentially increase survival of striatal projection neurons in a mouse model of HD where NMDA neurotoxicity is induced (e.g., pg. 2190; as it relates to claims 14 & 15), and concludes that "continuous flow of low doses of BDNF might be beneficial for the treatment of neurodegenerative disease states affecting striatal projection neurons", such as Huntington's disease (see Abstract & pg. 2198 (*pp* bridging col. 1 & 2)). Excitotoxicity, oxidative stress, etc. are disclosed by Perez-Navarro et al as mechanisms that may explain neurodegeneration in HD (pgs. 2190 & 2198 (1st col.)). However, Perez-Navarro et al do not teach compositions comprising neurotrophins and BAS derivatives for treating Huntington's disease.

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It would have been obvious to one of ordinary skill in the art at the time of filing the instant invention to complement the pharmaceutical compositions of Gwag et al with the neurotrophins BDNF, NT3 & NT4/5 of Perez-Navarro et al, because both set of compounds would be beneficial for treating NMDA receptor-mediated neurotoxicity in Huntington's disease with a reasonable expectation of success, based upon both compounds being reasonably effective in treating NMDA receptor neurotoxicity.

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It is noted that MPEP 2144.06 makes clear that it is obvious to combine equivalents known for the same purpose. In particular,

"It is prima facie obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition to be used for the very same purpose.... [T]he idea of combining them flows logically from their having been individually taught in the prior art." In re Kerkhoven, 626 F.2d 846, 850, 205 USPQ 1069, 1072 (CCPA 1980).

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Robert Hayes whose telephone number is (571) 272-0885. The examiner can normally be reached on Monday through Thursday from 9:00 AM to 5:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeff Stucker, can be reached on (571) 272-0911. The fax phone number for this Group is (703) 872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-7997 (toll-free).

/Robert C. Hayes/ Primary Examiner, Art Unit 1649 January 5, 2009